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APPLICATION NO	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,092	06/25/2003		Gregory D. Cooper	2476-30	1919
23117	7590	05/11/2004		EXAMINER	
		RHYE, PC	FULLER, RODNEY EVAN		
1100 N GLEBE ROAD 8TH FLOOR				ART UNIT	PAPER NUMBER
ARLINGT	ON, VA 2	22201-4714	2851		

DATE MAILED: 05/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			$-\infty$				
	Application No.	Applicant(s)					
	10/603,092	COOPER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Rodney E Fuller	2851					
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	vith the correspondence add	lress				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perions Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a sply within the statutory minimum of this will apply and will expire SIX (6) MO ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this con ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 25	June 2003.						
2a) This action is FINAL . 2b) ☑ Th	nis action is non-final.						
3) Since this application is in condition for allow	ance except for formal ma	tters, prosecution as to the	merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) 1-21 is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdr	awn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-21</u> is/are rejected.	· · · ——						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	or election requirement.						
Application Papers							
9)⊠ The specification is objected to by the Examin	ner.						
D)⊠ The drawing(s) filed on <u>25 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTC	O-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in a light in the ligh	Application No n received in this National S	Stage				
Attachment(s)							
1) Notice of References Cited (PTO-892)		Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	_	(s)/Mail Date Informal Patent Application (PTO-	-152)				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	6) Other:		.52,				

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DETAILED ACTION

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Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The abstract of the disclosure is objected to because the abstract exceeds the "150-words"

limit. Correction is required. See MPEP § 608.01(b).

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1-21 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-22 of U.S. Patent No. 6,600,551 (Cooper, et al.).

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Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following:

- a. Claim 1 is identical to claim 1 of US 6,600,551 with the exception of (i) the limitation "a programmable photolithographic mask" has been changed to "a programmable mask"; (ii) the limitation "an active region consisting of a material" has been changed to "an active region comprising a material"; (iii) the limitation "by application of a voltage" has been changed to by application of a stimulus"; (iv) the limitation "the controller controlling the voltage" has been changed to "the controller controlling the stimulus".
- b. Claims 2-5 are identical to claims 2-5 of US 6,600,551.
- c. Claims 6 is identical to claim 6 of US 6,600,551 with the exception of (i) the limitation "disposed between the substrate" has been changed to "disposed between the wafer"; the limitation "an active region consisting" has been changed to "an active region comprising"; and the limitation "at least part of the substrate" has been changed to "at least part of the wafer".
- d. Claim 7 is identical to claim 7 of US 6,600,551.
- e. Claim 8 is identical to claim 9 of US 6,600,551 with the exception of (i) the limitation "an active region consisting of material which can be made transparent or opaque by applying a voltage to change the density of occupied initial states or the density of unoccupied final states of the electrons" has been changed to "an active region comprising a material which can be made transparent or opaque by applying a voltage or

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current to change the density of occupied initial states or the density of unoccupied final states of the electrons."

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- f. Claims 9 and 10 are identical to claims 10 and 11 of US 6,600,551.
- g. Claim 11 is identical to claim 12 of US 6,600,551 with the exception of (i) the limitation "having holes consisting of" has been changed to "having holes comprising a";(ii) the limitation "a voltage" has been changed to "a voltage or current".
- h. Claims 12 and 13 are identical to claims 13 and 14 of US 6,600,551.
- i. Claim 14 is identical to claim 15 of US 6,600,551 with the exception (i) the limitation "controlling the applied voltage" has been changed to "controlling a voltage or current".
- j. Claims 15-17 are identical to claims 16-18 of US 6,600,551.
- k. Claim 18 is identical to claim 19 if US 6,600,551 with the exception of (i) the limitation "an active region consisting of" has been changed to "an active region comprising"; the limitation "by applying a voltage" has been changed to "by applying a voltage or current".
- 1. Claims 19 and 20 are identical to claim 20 and 21 of US 6,600,551.
- m. Claim 21 is identical to claim 22 of US 6,600,551 with the exception of (i) the limitation "said applied voltage" has been changed to "said applied voltage or current".

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify US 6,600,551 (Cooper) in the manner described above because (i) the stimulus of the two dimensional array by either a voltage, current, or the broader term "stimulus" would be an obvious matter of design choice since it appears that the invention would perform

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equally well with either a voltage or a current applied as the stimulus; (ii) the term "substrate" and "wafer" are referring the identical structure; (iii) the other changes appear to by more or less typographical in nature.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney E Fuller whose telephone number is 571-272-2118. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on 571-272-2112. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rodney E Fuller Primary Examiner Art Unit 2851

May 3, 2004